



Kate Hauer
Air Specialist

MCBU, HES, AIR
11111 South Wilcrest
Houston Tx. 77099
Tel 281-561-3830
Fax 281-561-3702
katehauer@chevron.com

April 29, 2010

Carey Bylin
Natural Gas Star Program
U.S. Environmental Protection Agency
1200 Pennsylvania Ave., NW (MC6207-J)
Washington, DC 20460

Dear Ms. Bylin,

Please find enclosed the 2009 Annual Report for Chevron North America Exploration and Production Company's MidContinent/Alaska Business Unit.

If you have any questions, please do not hesitate to contact me at the telephone number and e-mail address above.

Sincerely,

A handwritten signature in black ink that reads "Katherine Hauer".

Katherine Hauer

Enclosure

Chevron has been a participant in the Natural Gas STAR program since 1995. The program is a voluntary partnership between the EPA and the oil and gas industry to encourage methane emissions reductions among natural gas producers, processors, and transmission companies. As a partner, Chevron is required to annually report our methane emissions reductions. Below is a summary of the 2009 MCA results, collected through collaboration with Energy Management, HES Specialists, and a review of the MCA capital project list.

Projects		Methane Reductions ¹		\$ Spent	Value of Gas Saved ²
8	Flares	16.0	MMCF	\$282,873	\$112,000
63	Plunger Lifts	296.1	MMCF	\$1,515,026	\$2,072,700
82	Pumping Units	79.8	MMCF	\$4,287,566	\$558,502
26	Velocity Strings	121.7	MMCF	\$184,805	\$851,760
6	Electric Compressor	24.8	MMCF	\$5,158,330	\$173,548
4	Soap Units	10.1	MMCF	\$15,535	\$70,560
13	Ignition Systems to Comp.	9.9	MMCF	\$780,000	\$68,978
1	VRUs	0.4	MMCF	\$96,948	\$2,660
203	TOTAL	558.7	MMCF	\$12,321,080	\$3,910,704

1. Most methane reductions are calculated using emissions factors provided by the EPA NG STAR program
2. Gas value based on \$7/mcf

Annual Report 2009



Production Sector

Company Information

Company Name: Chevron North America Exploration and
Production Company
MidContinent/Alaska Business Unit

Gas STAR Contact: Kate Hauer

Title: Air Specialist

Address: PO Box 36366
Rm. C-2403

City, State, Zip Code: Houston, TX 77236

Telephone: (281) 561 - 3830

Fax: (281) 561 - 7204

E-mail: katehauer@chevron.com

Annual Report Summary

Period covered by report: From: Jan 09 To: Dec 09

Signature:

Katherine Hauer

Date:

April 28, 2010

- Because the implementation of some technologies reduces emissions for multiple years, Gas STAR allows certain activities to count towards a company's emission reductions beyond the initial year of implementation. Gas STAR designates the maximum length of time that these reductions may accrue as "sunset dates." The Appendix lists these sunset dates. Companies can report the corresponding methane emission reductions each year up to the allowable sunset date. Or, companies may wish to report reductions only once for the implementation year, and have EPA automatically apply the sunset date and count those emissions for the allowable number of years.
- In addition to reporting methane emissions reductions, you are welcome to include other information about your company's participation in Natural Gas STAR in the "Additional Program Accomplishments" section of this form. The Natural Gas STAR Program will use any information entered in this section to recognize the efforts and accomplishments of outstanding partners.



Production Sector Annual Report

OMB Control No. 2060-0328

Partner Reported Opportunities (PROs) (For more details on PROs, visit epa.gov/gasstar/techprac.htm)

Current Year Activities

A. Facility/location identifier information: Chevron MidContinent/Alaska Business Unit

B. Activity description: Please provide a separate PRO reporting form for each activity reported. If reporting a DI&M activity, please use a separate page for each location/facility surveyed.

Please specify the technology or practice that was implemented (choose from the list in the appendix or describe your own):

Install Flares

Please describe how your company implemented this activity:

C. Level of Implementation (check one):

- ☒ Number of units installed: 8 units
☐ Frequency of practice: times/year

E. Are emissions reductions a one-year reduction or a multi-year reduction? ☐ One-year ☒ Multi-year

If Multi-year:

- ☒ Partner will report this activity once and let EPA automatically calculate future emission reductions based on sunset date duration*.
☐ Partner will report this activity annually up to allowed sunset date.

E. Methane emissions reduction: 16000 Mcf

F. Cost summary: Estimated cost of implementing this practice/activity (including equipment and labor): \$ 282,873

Please identify the basis for the emissions reduction estimate, using the space provided to show any calculations

- ☐ Actual field measurement
☐ Calculation using manufacturer specifications/other source
☒ Other (please specify): PRO Reported Savings

For assistance quantifying the methane emission reductions achieved by a particular technology or practice, please refer to the Gas STAR Emission Reduction Quantification Reference Guide, available on the Gas STAR Web site at: epa.gov/gasstar/docs/quantifying_nga_methane_reductions.xls.

G. Total value of gas saved: \$ 112,000

Total value of gas saved = Methane emissions reduction (in Mcf)
x Gas value (in \$/Mcf) [If not known, use default of \$7.00/Mcf]

H. To what extent do you expect to implement this practice next year?

Previous Years' Activities

Use the table below to report any past implementation of this PRO, but not previously reported to Natural Gas STAR

Year	Frequency of Practice/Activity or # of Installations	Total Cost of Practice/Activity (incl. equipment and labor) (\$)	Estimated Reductions (Mcf/yr)	Value of Gas Saved (\$)

PRO Comments: Please use the back of the page for additional space if needed.

* Because the implementation of some technologies reduces emissions for multiple years, Gas STAR allows certain activities to count towards a company's emission reductions beyond the initial year of implementation. Gas STAR designates the maximum length of time that these reductions may accrue as "sunset dates." The Appendix lists these sunset dates. Companies can report the corresponding methane emission reductions each year up to the allowable sunset date. Or, companies may wish to report reductions only once for the implementation year, and have EPA automatically apply the sunset date and count those emissions for the allowable number of years.



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Current Year Activities

A. Facility/location identifier information: Chevron MidContinent/Alaska Business Unit

B. Activity description: Please provide a separate PRO reporting form for each activity reported. If reporting a DI&M activity, please use a separate page for each location/facility surveyed.

Please specify the technology or practice that was implemented (choose from the list in the appendix or describe your own):

Install Plunger Lifts

Please describe how your company implemented this activity:

C. Level of Implementation (check one):

- ☒ Number of units installed: 63 units
☐ Frequency of practice: times/year

E. Are emissions reductions a one-year reduction or a multi-year reduction? ☐ One-year ☒ Multi-year

If Multi-year:

☒ Partner will report this activity once and let EPA automatically calculate future emission reductions based on sunset date duration*.

☐ Partner will report this activity annually up to allowed sunset date.

E. Methane emissions reduction: 296,100 Mcf

F. Cost summary: Estimated cost of implementing this practice/activity (including equipment and labor): \$ 1,515,026

Please identify the basis for the emissions reduction estimate, using the space provided to show any calculations

- ☐ Actual field measurement
☐ Calculation using manufacturer specifications/other source
☒ Other (please specify): PRO Reported Savings

For assistance quantifying the methane emission reductions achieved by a particular technology or practice, please refer to the Gas STAR Emission Reduction Quantification Reference Guide, available on the Gas STAR Web site at: epa.gov/gasstar/docs/quantifying_ngs_methane_reductions.xls.

G. Total value of gas saved: \$ 2,072,700

Total value of gas saved = Methane emissions reduction (in Mcf)
x Gas value (in \$/Mcf) [If not known, use default of \$7.00/Mcf]

H. To what extent do you expect to implement this practice next year?

Previous Years' Activities

Use the table below to report any past implementation of this PRO, but not previously reported to Natural Gas STAR

Year	Frequency of Practice/Activity or # of Installations	Total Cost of Practice/Activity (incl. equipment and labor) (\$)	Estimated Reductions (Mcf/yr)	Value of Gas Saved (\$)

PRO Comments: Please use the back of the page for additional space if needed.

* Because the implementation of some technologies reduces emissions for multiple years, Gas STAR allows certain activities to count towards a company's emission reductions beyond the initial year of implementation. Gas STAR designates the maximum length of time that these reductions may accrue as "sunset dates." The Appendix lists these sunset dates. Companies can report the corresponding methane emission reductions each year up to the allowable sunset date. Or, companies may wish to report reductions only once for the implementation year, and have EPA automatically apply the sunset date and count those emissions for the allowable number of years.



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Current Year Activities

A. Facility/location identifier information: Chevron MidContinent/Alaska Business Unit

B. Activity description: Please provide a separate PRO reporting form for each activity reported. If reporting a DI&M activity, please use a separate page for each location/facility surveyed.

Please specify the technology or practice that was implemented (choose from the list in the appendix or describe your own):

Install Pumping Units

Please describe how your company implemented this activity:

C. Level of Implementation (check one):

- ☒ Number of units installed: 82 units
☐ Frequency of practice: _____ times/year

E. Are emissions reductions a one-year reduction or a multi-year reduction? ☐ One-year ☒ Multi-year

If Multi-year:

☒ Partner will report this activity once and let EPA automatically calculate future emission reductions based on sunset date duration*.

☐ Partner will report this activity annually up to allowed sunset date.

E. Methane emissions reduction: 79,800 Mcf

F. Cost summary: Estimated cost of implementing this practice/activity (including equipment and labor): \$ 4,287,566

Please identify the basis for the emissions reduction estimate, using the space provided to show any calculations

- ☐ Actual field measurement ☒ Other (please specify): PRO Reported Savings
☐ Calculation using manufacturer specifications/other source

For assistance quantifying the methane emission reductions achieved by a particular technology or practice, please refer to the Gas STAR Emission Reduction Quantification Reference Guide, available on the Gas STAR Web site at: epa.gov/gasstar/docs/quantifying_ngs_methane_reductions.xls.

G. Total value of gas saved: \$ 558,502

Total value of gas saved = Methane emissions reduction (in Mcf)
x Gas value (in \$/Mcf) [If not known, use default of \$7.00/Mcf]

H. To what extent do you expect to implement this practice next year?

Previous Years' Activities

Use the table below to report any past implementation of this PRO, but not previously reported to Natural Gas STAR

Year	Frequency of Practice/Activity or # of Installations	Total Cost of Practice/Activity (incl. equipment and labor) (\$)	Estimated Reductions (Mcf/yr)	Value of Gas Saved (\$)

PRO Comments: Please use the back of the page for additional space if needed.

* Because the implementation of some technologies reduces emissions for multiple years, Gas STAR allows certain activities to count towards a company's emission reductions beyond the initial year of implementation. Gas STAR designates the maximum length of time that these reductions may accrue as "sunset dates." The Appendix lists these sunset dates. Companies can report the corresponding methane emission reductions each year up to the allowable sunset date. Or, companies may wish to report reductions only once for the implementation year, and have EPA automatically apply the sunset date and count those emissions for the allowable number of years.



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Current Year Activities

A. Facility/location identifier information: Chevron MidContinent/Alaska Business Unit

B. Activity description: Please provide a separate PRO reporting form for each activity reported. If reporting a DI&M activity, please use a separate page for each location/facility surveyed.

Please specify the technology or practice that was implemented (choose from the list in the appendix or describe your own):

Install Velocity Tubing Strings

Please describe how your company implemented this activity:

C. Level of Implementation (check one):

- ☒ Number of units installed: 26 units
☐ Frequency of practice: _____ times/year

E. Are emissions reductions a one-year reduction or a multi-year reduction? ☐ One-year ☒ Multi-year

If Multi-year:

☒ Partner will report this activity once and let EPA automatically calculate future emission reductions based on sunset date duration*.

☐ Partner will report this activity annually up to allowed sunset date.

E. Methane emissions reduction: 121,700 Mcf

F. Cost summary: Estimated cost of implementing this practice/activity (including equipment and labor): \$ 184,805

Please identify the basis for the emissions reduction estimate, using the space provided to show any calculations

- ☐ Actual field measurement ☒ Other (please specify): PRO Reported Savings
☐ Calculation using manufacturer specifications/other source

For assistance quantifying the methane emission reductions achieved by a particular technology or practice, please refer to the Gas STAR Emission Reduction Quantification Reference Guide, available on the Gas STAR Web site at: epa.gov/gasstar/docs/quantifying_ngs_methane_reductions.xls.

G. Total value of gas saved: \$ 851,760

Total value of gas saved = Methane emissions reduction (in Mcf)
x Gas value (in \$/Mcf) [If not known, use default of \$7.00/Mcf]

H. To what extent do you expect to implement this practice next year?

Previous Years' Activities

Use the table below to report any past implementation of this PRO, but not previously reported to Natural Gas STAR

Year	Frequency of Practice/Activity or # of Installations	Total Cost of Practice/Activity (incl. equipment and labor) (\$)	Estimated Reductions (Mcf/yr)	Value of Gas Saved (\$)

PRO Comments: Please use the back of the page for additional space if needed.

* Because the implementation of some technologies reduces emissions for multiple years, Gas STAR allows certain activities to count towards a company's emission reductions beyond the initial year of implementation. Gas STAR designates the maximum length of time that these reductions may accrue as "sunset dates." The Appendix lists these sunset dates. Companies can report the corresponding methane emission reductions each year up to the allowable sunset date. Or, companies may wish to report reductions only once for the implementation year, and have EPA automatically apply the sunset date and count those emissions for the allowable number of years.



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Current Year Activities

A. Facility/location identifier information: Chevron MidContinent/Alaska Business Unit

B. Activity description: Please provide a separate PRO reporting form for each activity reported. If reporting a DI&M activity, please use a separate page for each location/facility surveyed.

Please specify the technology or practice that was implemented (choose from the list in the appendix or describe your own):

Install electric compressors

Please describe how your company implemented this activity:

C. Level of Implementation (check one):

- ☒ Number of units installed: 6 units
☐ Frequency of practice: _____ times/year

E. Are emissions reductions a one-year reduction or a multi-year reduction? ☐ One-year ☒ Multi-year

If Multi-year:

☒ Partner will report this activity once and let EPA automatically calculate future emission reductions based on sunset date duration*.

☐ Partner will report this activity annually up to allowed sunset date.

E. Methane emissions reduction: 24793 Mcf

F. Cost summary: Estimated cost of implementing this practice/activity (including equipment and labor): \$ 5,158,330

Please identify the basis for the emissions reduction estimate, using the space provided to show any calculations

☐ Actual field measurement

☒ Other (please specify): PRO Reported Savings

☐ Calculation using manufacturer specifications/other source

For assistance quantifying the methane emission reductions achieved by a particular technology or practice, please refer to the Gas STAR Emission Reduction Quantification Reference Guide, available on the Gas STAR Web site at: epa.gov/gasstar/docs/quantifying_nga_methane_reductions.xls.

G. Total value of gas saved: \$ 173,548

Total value of gas saved = Methane emissions reduction (in Mcf)
x Gas value (in \$/Mcf) [If not known, use default of \$7.00/Mcf]

H. To what extent do you expect to implement this practice next year?

Previous Years' Activities

Use the table below to report any past implementation of this PRO, but not previously reported to Natural Gas STAR

Year	Frequency of Practice/Activity or # of Installations	Total Cost of Practice/Activity (incl. equipment and labor) (\$)	Estimated Reductions (Mcf/yr)	Value of Gas Saved (\$)

PRO Comments: Please use the back of the page for additional space if needed.

* Because the implementation of some technologies reduces emissions for multiple years, Gas STAR allows certain activities to count towards a company's emission reductions beyond the initial year of implementation. Gas STAR designates the maximum length of time that these reductions may accrue as "sunset dates." The Appendix lists these sunset dates. Companies can report the corresponding methane emission reductions each year up to the allowable sunset date. Or, companies may wish to report reductions only once for the implementation year, and have EPA automatically apply the sunset date and count those emissions for the allowable number of years.



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Partner Reported Opportunities (PROs) (For more details on PROs, visit epa.gov/gasstar/techprac.htm)

Current Year Activities

A. Facility/location identifier information: Chevron MidContinent/Alaska Business Unit

B. Activity description: Please provide a separate PRO reporting form for each activity reported. If reporting a DI&M activity, please use a separate page for each location/facility surveyed.

Please specify the technology or practice that was implemented (choose from the list in the appendix or describe your own):

Install soap launchers/soap units

Please describe how your company implemented this activity:

C. Level of Implementation (check one):

- ☒ Number of units installed: 4 units
☐ Frequency of practice: _____ times/year

E. Are emissions reductions a one-year reduction or a multi-year reduction? ☐ One-year ☒ Multi-year

If Multi-year:

☒ Partner will report this activity once and let EPA automatically calculate future emission reductions based on sunset date duration*.

☐ Partner will report this activity annually up to allowed sunset date.

E. Methane emissions reduction: 10,080 Mcf

F. Cost summary: Estimated cost of implementing this practice/activity (including equipment and labor): \$ 15,535

Please identify the basis for the emissions reduction estimate, using the space provided to show any calculations

☐ Actual field measurement

☒ Other (please specify): PRO Reported Savings

☐ Calculation using manufacturer specifications/other source

For assistance quantifying the methane emission reductions achieved by a particular technology or practice, please refer to the Gas STAR Emission Reduction Quantification Reference Guide, available on the Gas STAR Web site at: epa.gov/gasstar/docs/quantifying_ngs_methane_reductions.xls.

G. Total value of gas saved: \$ 70,560

Total value of gas saved = Methane emissions reduction (in Mcf)
x Gas value (in \$/Mcf) [If not known, use default of \$7.00/Mcf]

H. To what extent do you expect to implement this practice next year?

Previous Years' Activities

Use the table below to report any past implementation of this PRO, but not previously reported to Natural Gas STAR

Year	Frequency of Practice/Activity or # of Installations	Total Cost of Practice/Activity (incl. equipment and labor) (\$)	Estimated Reductions (Mcf/yr)	Value of Gas Saved (\$)

PRO Comments: Please use the back of the page for additional space if needed.

* Because the implementation of some technologies reduces emissions for multiple years, Gas STAR allows certain activities to count towards a company's emission reductions beyond the initial year of implementation. Gas STAR designates the maximum length of time that these reductions may accrue as "sunset dates." The Appendix lists these sunset dates. Companies can report the corresponding methane emission reductions each year up to the allowable sunset date. Or, companies may wish to report reductions only once for the implementation year, and have EPA automatically apply the sunset date and count those emissions for the allowable number of years.



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Current Year Activities

A. Facility/location identifier information: Chevron MidContinent/Alaska Business Unit

B. Activity description: Please provide a separate PRO reporting form for each activity reported. If reporting a DI&M activity, please use a separate page for each location/facility surveyed.

Please specify the technology or practice that was implemented (choose from the list in the appendix or describe your own):

Ignition Systems added onto existing Compressors

Please describe how your company implemented this activity:

C. Level of Implementation (check one):

- ☒ Number of units installed: 13 units
☐ Frequency of practice: _____ times/year

E. Are emissions reductions a one-year reduction or a multi-year reduction? ☐ One-year ☒ Multi-year

If Multi-year:

☒ Partner will report this activity once and let EPA automatically calculate future emission reductions based on sunset date duration*.

☐ Partner will report this activity annually up to allowed sunset date.

E. Methane emissions reduction: 9,900 Mcf

F. Cost summary: Estimated cost of implementing this practice/activity (including equipment and labor): \$ 780,000

Please identify the basis for the emissions reduction estimate, using the space provided to show any calculations

☐ Actual field measurement

☒ Other (please specify): PRO Reported Savings

☐ Calculation using manufacturer specifications/other source

For assistance quantifying the methane emission reductions achieved by a particular technology or practice, please refer to the Gas STAR Emission Reduction Quantification Reference Guide, available on the Gas STAR Web site at: epa.gov/gasstar/docs/quantifying_ngo_methane_reductions.xls.

G. Total value of gas saved: \$ 68,978

Total value of gas saved = Methane emissions reduction (in Mcf)
x Gas value (in \$/Mcf) [If not known, use default of \$7.00/Mcf]

H. To what extent do you expect to implement this practice next year?

Previous Years' Activities

Use the table below to report any past implementation of this PRO, but not previously reported to Natural Gas STAR

Year	Frequency of Practice/Activity or # of Installations	Total Cost of Practice/Activity (incl. equipment and labor) (\$)	Estimated Reductions (Mcf/yr)	Value of Gas Saved (\$)

PRO Comments: Please use the back of the page for additional space if needed.

* Because the implementation of some technologies reduces emissions for multiple years, Gas STAR allows certain activities to count towards a company's emission reductions beyond the initial year of implementation. Gas STAR designates the maximum length of time that these reductions may accrue as "sunset dates." The Appendix lists these sunset dates. Companies can report the corresponding methane emission reductions each year up to the allowable sunset date. Or, companies may wish to report reductions only once for the implementation year, and have EPA automatically apply the sunset date and count those emissions for the allowable number of years.



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Current Year Activities

A. Facility/location identifier information: Chevron MidContinent/Alaska Business Unit

B. Activity description: Please provide a separate PRO reporting form for each activity reported. If reporting a DI&M activity, please use a separate page for each location/facility surveyed.

Please specify the technology or practice that was implemented (choose from the list in the appendix or describe your own):

Install VRUs on crude oil storage tanks

Please describe how your company implemented this activity:

C. Level of Implementation (check one):

- ☒ Number of units installed: 1 units
☐ Frequency of practice: _____ times/year

E. Are emissions reductions a one-year reduction or a multi-year reduction? ☐ One-year ☒ Multi-year

If Multi-year:

☒ Partner will report this activity once and let EPA automatically calculate future emission reductions based on sunset date duration*.

☐ Partner will report this activity annually up to allowed sunset date.

E. Methane emissions reduction: 380 Mcf

F. Cost summary: Estimated cost of implementing this practice/activity (including equipment and labor): \$ 96,948

Please identify the basis for the emissions reduction estimate, using the space provided to show any calculations

☐ Actual field measurement

☒ Other (please specify): PRO Reported Savings

☐ Calculation using manufacturer specifications/other source

For assistance quantifying the methane emission reductions achieved by a particular technology or practice, please refer to the Gas STAR Emission Reduction Quantification Reference Guide, available on the Gas STAR Web site at: epa.gov/gasstar/docs/quantifying_nga_methane_reductions.xls.

G. Total value of gas saved: \$ 2,660

Total value of gas saved = Methane emissions reduction (in Mcf)
x Gas value (in \$/Mcf) [If not known, use default of \$7.00/Mcf]

H. To what extent do you expect to implement this practice next year?

Previous Years' Activities

Use the table below to report any past implementation of this PRO, but not previously reported to Natural Gas STAR

Year	Frequency of Practice/Activity or # of Installations	Total Cost of Practice/Activity (incl. equipment and labor) (\$)	Estimated Reductions (Mcf/yr)	Value of Gas Saved (\$)

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